

ORIGINAL



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Antelope Lakes Sewer, LL

2465 Shane Drive Prescott, AZ 86305

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AZ CORP COMMISSION
DOCKET CONTROL

February 19, 2008

Robin R. Mitchell
Attorney, Legal Division
Arizona Corporation Commission
1200 W. Washington St.
Phoenix, AZ 85007-2927

Arizona Corporation Commission
DOCKETED

FEB 21 2008

DOCKETED BY	
KL	nr

RE: Staff's Third Set of Data Requests to Antelope Lakes Sewer, LLC
Docket #SW-20510A-07-0062

Dear Ms. Mitchell,

This letter is in response to the Staff's Third Set of Data Requests concerning Antelope Lakes Sewer, LLC.

MSJ 3-1

1. Question:

Confirm that for the proposed plant-in-service, the only effluent plant reported was the effluent lift station at an estimated cost of \$5,000.00.

Answer:

The effluent lift station estimated at \$5,000.00 is the correct amount for the lift station, however, the leach field was omitted. The Master Sewer Plan, included herewith as "Attachment 2", has been revised to show the leach lines. The leach lines with the proper engineering for percolation rates and sizing will be submitted to Arizona Department of Environmental Quality (ADEQ) as part of the Aquifer Protection Permit (APP).

2. Question:

If the above "A" is confirmed, the effluent system is not complete. In order to have a complete effluent system understanding, please provide:

- A. The effluent system method; i.e., recharge wells, leachfield, etc. Provide plans if available.
- B. The detailed cost estimate of the selected effluent system.
- C. Who will be responsible for funding of the effluent system.

Answer:

2(a).

The effluent disposal for the first two phases will be leach fields. Plans are to be submitted to ADEQ as part of the APP application.

2(B)

The cost estimate for the improvements have been revised to show the construction of the leach fields, and attached herewith as "Attachment 1".

2(C)

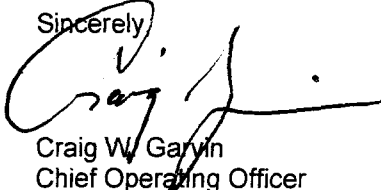
The funding for the leach fields will be included in the capital cost for the construction in the first phase of construction.

"Attachment 1" is the revised Antelope Lakes Sewer, LLC cost estimate

"Attachment 2" is the Master Sewer Plan for Antelope Lakes Sewer, LLC. Please note that the leach fields have been drawn into the plan to show the location where they will be engineered.

If you have any further questions please call Craig Garvin at (928)778-2600 or by email at craiggarvin@leviegroupp.com.

Sincerely,



Craig W. Garvin
Chief Operating Officer
Antelope Lakes Sewer, LLC

CG:gma

Cc: Marlin Scott, Jr.
Staff Assigned
Docket Control
Service List

ANTELOPE LAKES SEWER
COST ESTIMATE
DECEMBER, 2007
(Revised 2/15/08)

PHASE I

217 Lots @ 193 gpd/lot = 41,881 gallons per day
Treatment Plant Phase I = 45,000 gallons per day

ESTIMATED COST

400 L.F. 15" SDR-35 sewer @ \$45/L.F.	\$ 18,000	
600 L.F. 10" SDR-35 sewer @ \$38/L.F.	\$ 22,000	
7,700 L.F. 8" SDR-35 sewer @ \$26/L.F.	\$ 200,200	
217 - 4" Services @ \$300 ea.	\$ 65,100	
7 - 5' Dia. Manholes @ \$3,500 ea.	\$ 24,500	
22 - 4' Dia. Manholes @ \$3,000 ea.	\$ 66,000	
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	\$ 395,800	\$ 396,800

WASTE WATER TREATMENT PLANT

10,000 Gal. Equalization	\$ 20,000	
Flow Splitter	\$ 5,000	
2 - 20,000 Gal. Aeration Tanks	\$ 40,000	
1 - 15' Dia. Clarifier	\$ 17,500	
Blowers	\$ 22,000	
Instrumentation	\$ 15,000	
Filtration System	\$ 18,500	
Disinfection	\$ 18,450	
Sludge Holding	\$ 20,000	
Headworks & Building - 15' X 25'	\$ 25,000	
Clarifier Building - 25' X 50'	\$ 31,250	
Equipment & Office Building - 30' X 38'	\$ 85,500	
Lift Station at Headworks	\$ 42,500	
Effluent Lift Station	\$ 5,000	
Leach Field & Force Main	\$ 27,000	
Yard Piping	\$ 20,000	
Grading & Excavation	\$ 50,000	
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	\$ 458,500	\$ 458,500

\$ 854,300

14% Engineering	\$ 119,602
1% Permits & Fees	\$ 8,543
15% Contingency	\$ 128,145

\$1,110,259

PHASE II

249 Lots @ 193 gpd/lot = 48,057 gallons per day
Treatment Plant Phase II = 45,000 gallons per day

ESTIMATED COST

900 L.F. 15" SDR-35 sewer @ \$45/L.F.	\$ 40,500	
3,100 L.F. 12" SDR-35 sewer @ \$40/L.F.	\$ 124,000	
4,100 L.F. 8" SDR-35 sewer @ \$26/L.F.	\$ 106,600	
249 - 4" Services @ \$300 ea.	\$ 74,700	
13 - 5' Dia. Manholes @ \$4,000 ea.	\$ 52,000	
15 - 4' Dia. Manholes @ \$3,500 ea.	\$ 52,500	
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	\$ 450,300	\$ 450,300

WASTE WATER TREATMENT PLANT

2 - 20,000 Gal. Aeration Tanks	\$ 40,000	
1 - 15' Dia. Clarifier	\$ 17,500	
Yard Piping	\$ 20,000	
Grading & Excavation	\$ 25,000	
	<hr/>	
	\$ 102,500	\$ 102,500
		<hr/>
		\$ 552,800

14% Engineering	\$ 77,392
1% Permits & Fees	\$ 5,528
15% Contingency	\$ 82,920
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	\$ 718,640

PHASE I - \$ 1,110,259

PHASE II - \$ 718,640

\$ 1,828,899

\$ 1,828,899 ÷ 466 lots = \$ 3,925/lot

PHASE III

466 Lots from Phase I & II

677 Lots from Phase III

512 Lots from Phase III-A

1,655 Lots

PHASE III

TRUNK LINE

2,650 L.F. 10" SDR-35 sewer @ \$38/L.F.	\$ 100,700	
5,280 L.F. 8" SDR-35 sewer @ \$26/L.F.	\$ 137,280	
21 - 5' Dia. Manholes @ \$4,000 ea.	\$ 84,000	
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	\$ 321,980	\$ 321,980

677 LOT SUBDIVISION

24,040 L.F. 8" SDR-35 sewer @ \$26/L.F.	\$ 625,040	
677 - 4" Services @ \$300 ea.	\$ 203,100	
53 - 4' Dia. Manholes @ \$4,000 ea.	\$ 212,000	
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	\$ 1,040,140	\$ 1,040,140

512 LOT SUBDIVISION

23,700 L.F. 8" SDR-35 sewer @ \$26/L.F.	\$ 616,200	
512 - 4" Services @ \$300 ea.	\$ 153,600	
52 - 4' Dia. Manholes @ \$4,000 ea.	\$ 182,000	
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	\$ 977,800	\$ 977,800

\$ 977,800 ÷ 512 lots = \$ 1,910/lot

WASTE WATER TREATMENT PLANT

750,000 gpd		
3 Phases @ 250,000 gpd		
250,000 gpd @ \$4/gal	\$ 1,000,000	\$ 1,000,000
		<hr/>
		\$ 3,339,920
	14% Engineering	\$ 467,588
	1% Permits & Fees	\$ 33,399
	15% Contingency	\$ 500,988
		<hr/>
		\$ 4,341,895

\$ 4,341,895 ÷ 1,655 = \$ 2,624/lot

PHASE I - \$ 1,110,259
PHASE II - \$ 718,640
PHASE III - \$ 3,341,895
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\$ 5,170,884

\$ 5,170,884 ÷ 1,655 lots = \$ 3,124/lot

PHASE IV

1,470 Lots

SEWER & LATERALS

1,470 Lots @ \$ 1,800/lot

\$ 2,664,000

WASTE WATER TREATMENT PLANT

250,000 gal/day Expansion

\$ 1,000,000

\$ 3,664,000

\$ 3,664,000

14% Engineering

\$ 512,960

1% Permits & Fees

\$ 36,640

15% Contingency

\$ 549,600

\$ 4,763,200

\$ 4,763,200 ÷ 1,470 lots = \$ 3,240/lot

PHASE I - \$ 1,110,259

PHASE II - \$ 718,640

PHASE III - \$ 3,341,895

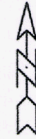
PHASE IV - \$ 4,763,200

\$ 9,933,994 ÷ 3,125 lots = \$ 3,179/lot

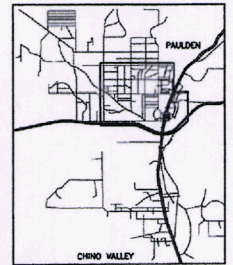
PHASE V

Balance of treatment plant as required.

MASTER SEWER PLAN FOR ANTELOPE LAKES SEWER CO.



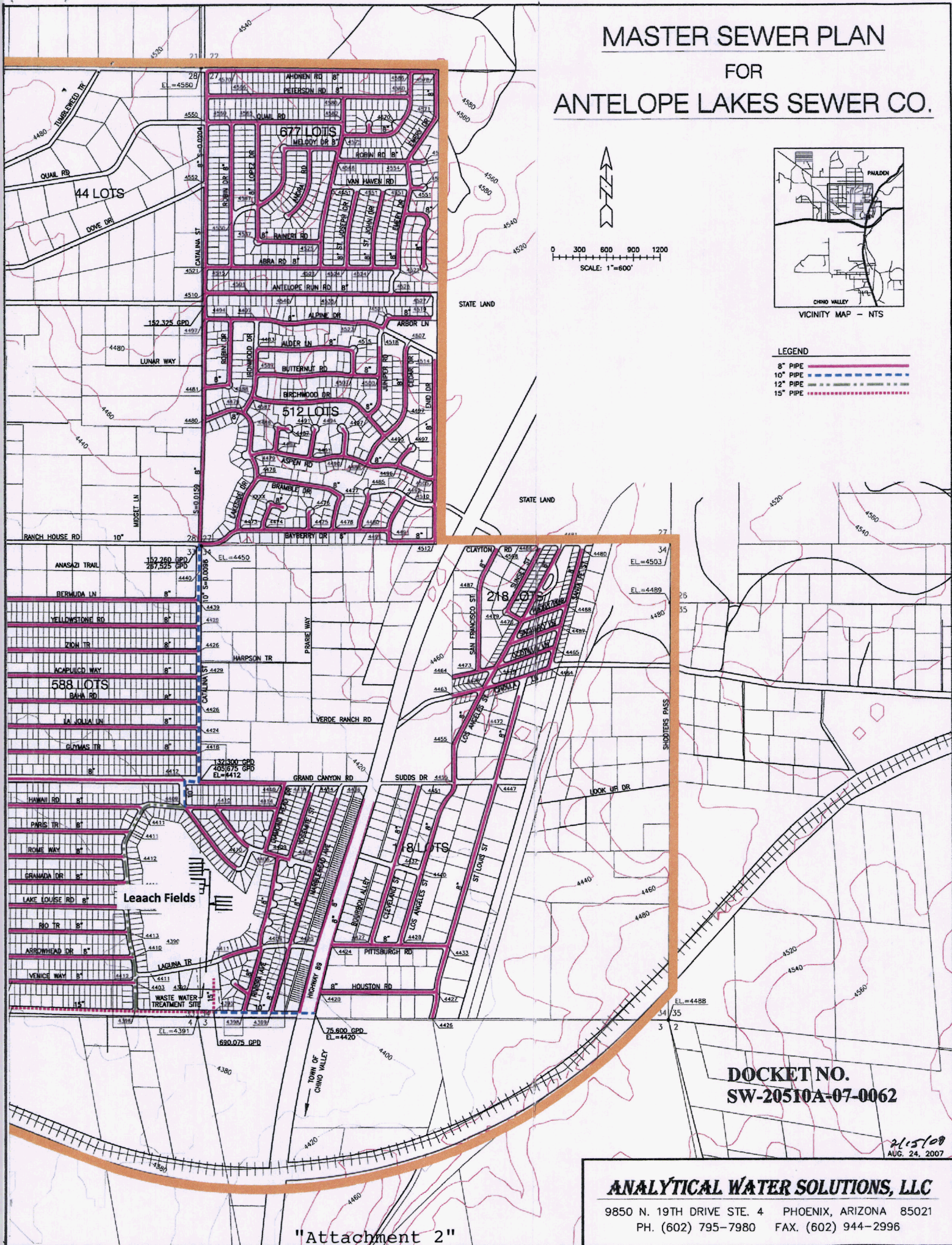
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SCALE: 1"=600'



VICINITY MAP - NTS

LEGEND

8" PIPE ———
10" PIPE - - - - -
12" PIPE = = = = =
15" PIPE - - - - -



DOCKET NO.
SW-20510A-07-0062

2/15/08
AUG. 24, 2007

ANALYTICAL WATER SOLUTIONS, LLC

9850 N. 19TH DRIVE STE. 4 PHOENIX, ARIZONA 85021
PH. (602) 795-7980 FAX. (602) 944-2996

"Attachment 2"